This listing of the claims will replace all prior versions, and listings of claims in the application.

Claims

1. (Currently Amended) A method of applying a soil stabilizer to soil comprising:

adding said soil stabilizer to a solid carrier;

applying said solid carrier to said soil;

applying water to said solid carrier;

releasing said soil stabilizer out of said solid carrier into said soil;

~~wherein said solid carrier comprises a soil conditioner~~

wherein said solid carrier is made by an agglomeration process, including agitation, pressure, liquid and thermal;

wherein application rates of said solid carrier to said soil is based on desired amount of said soil stabilizer to be metered to said soil.

2. (Cancelled)

3. (Original) The method of claim 1 wherein said solid carrier is applied to said soil through conventional means, such as, spreaders.

4. (Original) The method of claim 1 wherein said water is from rain.

5. (Original) The method of claim 1 wherein said water is provided by a user.

6. (Original) The method of claim 1 further comprising:

adding fertilizers and/or soil amendments to said solid carrier.

7. (Original) The method of claim 1 wherein said solid carrier comprises fibrous material.

8. (Original) The method of claim 1 wherein said solid carrier further comprises a seed.

9. (Original) The method of claim 1 further comprising:

adding pesticides or herbicides to said solid carrier.

10. (Previously Presented) A method of applying a soil stabilizer to soil comprising:

adding said soil stabilizer to a solid carrier;

applying said solid carrier to said soil;

applying water to said solid carrier;

releasing said soil stabilizer out of said solid carrier into said soil;

wherein application rates of said solid carrier to said soil is based on desired amount of said soil stabilizer to be metered to said soil;

wherein said solid carrier is an agglomerate.

11. (Original) The method of claim 1 wherein said weight of said soil stabilizer of the total solid carrier weight is less than 50%.

12. (Original) The method of claim 1 wherein said solid carrier is in form of a granule, extruded pellet, woven mat, flake and/or formed bale.

13. (Original) The method of claim 1 wherein said solid carrier comprises a fertilizer.

14. (Previously presented) The method of claim 1 wherein said solid carrier further comprises disease causing microbes.

15. (Original) The method of claim 1 wherein said solid carrier further comprises aluminum sulfate and/or calcium oxide.

16. (Original) The method of claim 1 wherein the soil stabilizer is selected from the group consisting of: start xanthate, acid hydrolyzed cellulose microfibrils, chitin, gypsum, PAM, hydrocolloidal polysaccharide, acrylic copolymers, and/or sodium acrylate and any combination.

17. (Original) The method of claim 1 wherein said soil stabilizer is selected from the group consisting of : polyacrylamide, polyethylene-imines, polyamides-amines, polyamines, polyethylene-oxide, and sulfonated compounds.

18. (Original) The method of claim 1 wherein said solid carrier is comprised of a material that was previously treated with an ingredient that has soil stabilizing properties.

19. (Original) The method of claim 18 wherein said material is derived from potable water treatment, dewatering of sewage sludges, washing and lye-peeling of fruits and vegetables, clarification of sugar juice and liquor, adhesives and paper in contact with food, animal feed thickeners and suspending agents, cosmetics, paper manufacturing, various mining and drilling applications.

20. (Currently Amended) A method of applying soil stabilizer to soil:

adding said soil stabilizer to a solid carrier, said solid carrier comprised of at least about 25% particles in excess of 1mm in diameter;

applying said solid carrier to said soil;

applying water to said solid carrier;

releasing said soil stabilizer out of said solid carrier into said soil;

~~wherein said solid carrier comprises a soil conditioner~~

wherein said solid carrier is made by an agglomeration process, including agitation, pressure, liquid and thermal;

wherein application rates of said solid carrier to said soil is based on desired amount of said soil stabilizer to be metered to said soil.

21. (Original) The method of claim 1 wherein said solid carrier contains mineral elements.

22. (Original) The method of claim 21 wherein said soil stabilizer holds mineral elements in said soil.

23. (Cancelled)

24. (Cancelled)

25. (Original) The method of claim 16 wherein said PAM is anionic.

26. (Withdrawn) The method of claim 16 wherein said PAM is neutral.

27. (Withdrawn) The method of claim 16 wherein said PAM is cationic.

28. (Original) The method of claim 1 wherein said soil stabilizer reduces need for erosion mats in slope applications prior to establishment of permanent vegetation.

29. (Original) The method of claim 16 wherein said PAM increases permeability of said soil.

30. (Original) The method of claim 16 wherein said PAM binds to said soil to increase infiltration of said fertilizer and water within said soil.

31. (Original) The method of claim 1 wherein said soil stabilizer improves water infiltration of said soil, thereby improving soils ability to absorb water.

32. (Original) The method of claim 1 wherein said soil stabilizer improves water infiltration of said soil, thereby reducing the amount and/or frequency of water needed for said soil.

33. (Original) The method of claim 1 wherein said soil stabilizer reduces soil packing and cracking.

34. (Original) The method of claim 1 wherein said soil stabilizer improves soil tillability.

35. (Original) The method of claim 1 wherein said soil stabilizer is an anticrusting agent in said soil.

36. (Original) The method of claim 1 wherein said soil stabilizer reduces rilling of said soil.

37. (Original) The method of claim 16 wherein said PAM binds to fertilizer to reduce leaching of said fertilizer within said soil

38. (Original) The method of claim 16 wherein said PAM binds to said soil and fertilizer to reduce runoff of said fertilizer from said soil.

39. (Original) The method of claim 16 wherein said PAM binds to said soil and fertilizer to hold said fertilizer in said soil.

40. (Original) The method of claim 1 wherein said soil stabilizer reduces erosion of said soil, thereby reducing erosion of said fertilizer, thereby reducing fertilizer usage and fertilizer cost per acre.

41. (Original) The method of claim 1 wherein said soil stabilizer improves water infiltration of said soil, thereby reducing erosion of said fertilizer, thereby reducing fertilizer usage and fertilizer cost per acre.

42. (Original) The method of claim 1 wherein said soil stabilizer holds nutrients in said soil, thereby reducing fertilizer usage and cost per acre.

43. (Original) The method of claim 1 wherein said soil stabilizer reduces runoff and leaching of microbes in said soil.

44. (Original) The method of claim 1 wherein said soil stabilizer prevents movement of sediment containing nutrient, pesticides and other matter.

45. (Original) The method of claim 44 wherein said soil stabilizer reduces total fecal coliform bacteria and fecal strep leaching and runoff from said soil.

46. (Original) The method of claim 1 wherein said soil stabilizer controls erosive forces by holding soils in place and ionically bonding them together to increase particle size.

47. (Original) The method of claim 1 wherein said soil stabilizer improves survival and growth of plants.

48. (Original) The method of claim 1 wherein said soil stabilizer reduces time for seed emergence within said soil.

49. (Original) The method of claim 1 wherein said soil stabilizer improves root growth of plants within said soil.

50. (Original) The method of claim 1 wherein said soil stabilizer improves crop yield within said soil.

51. (Original) The method of claim 1 wherein said soil stabilizer results in a cleaner harvest of root crop.

52. (Original) The method of claim 1 wherein said soil stabilizer expedites crop maturity.

53. (Original) The method of claim 1 wherein said soil stabilizer increases viability of shrub, tree, and/or vegetable transplants.

54. (Original) The method of claim 1 wherein said soil stabilizer deepens plant rooting in said soil.

55. (Original) The method of claim 1 wherein said soil stabilizer advances planting dates by drying said soil faster.

56. (Original) The method of claim 1 wherein said soil stabilizer increases germination rates of seed in said soil.

57. (Previously presented) The method of claim 1 wherein said soil stabilizer reduces soil-borne diseases within said soil.

58. (Currently Amended) A method of improving soil penetration comprising;

applying to said soil by conventional application equipment a solid carrier;

said solid carrier comprising soil stabilizer;

adding water to said solid carrier;

releasing said soil stabilizer into said soil;

~~wherein said solid carrier comprises a soil conditioner~~

wherein said solid carrier is made by an agglomeration process, including agitation, pressure, liquid and thermal;

wherein application rates of said solid carrier to said soil is based on desired amount of said soil stabilizer to be metered to said soil.

59. (Currently Amended) A method of reducing soil erosion comprising;

applying to said soil by conventional application equipment a solid carrier;

said solid carrier comprising soil stabilizer;

adding water to said solid carrier;

releasing said soil stabilizer into said soil;

~~wherein said solid carrier comprises a soil conditioner~~

wherein said solid carrier is made by an agglomeration process, including agitation, pressure, liquid and thermal;

wherein application rates of said solid carrier to said soil is based on desired amount of said soil stabilizer to be metered to said soil.

60. (Currently amended) A method of reducing fertilizer runoff and leaching comprising;

applying to said soil by conventional application equipment a solid carrier;

said solid carrier comprising soil stabilizer;

adding water to said solid carrier;

releasing said soil stabilizer into said soil;

~~wherein said solid carrier comprises a soil conditioner~~

wherein said solid carrier is made by an agglomeration process, including agitation, pressure, liquid and thermal;

wherein application rates of said solid carrier to said soil is based on desired amount of said soil stabilizer to be metered to said soil.

61. (New) A method of applying a soil stabilizer to soil comprising:

adding said soil stabilizer to a solid carrier;

applying said solid carrier to soil;

applying water to said solid carrier;

leaching said soil stabilizer out of said solid carrier into said soil;

wherein said solid carrier consists essentially of a fertilizer;

wherein application rates of said solid carrier to said soil is based on desired amount of said soil stabilizer to be metered to said soil.

62. (New) A method of applying a soil stabilizer to soil comprising:

adding said soil stabilizer to a solid carrier;

applying said solid carrier to soil;

applying water to said solid carrier;

leaching said soil stabilizer out of said solid carrier into said soil;

wherein said solid carrier comprises a fibrous material;

wherein application rates of said solid carrier to said soil is based on desired amount of said soil stabilizer to be metered to said soil.